

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-024005**Date Inspected:** 16-Apr-2011**Project Name:** SAS Superstructure**OSM Arrival Time:** 1500**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 300**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Mr. Li Yan Hua**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector,Baskar Govindarajan, was present during the times noted above for observations relative to the work being performed.

Bay #16

This QA Inspector observed the following work in progress

Shielded Metal Arc Welding (SMAW)

Weld joint- 002, Located on Bike path Hand rails, FS2-P9. Welder is identified as 201861. ZPMC Quality Control Inspector (QC) is identified as Ma Qian Li. The welding variables recorded by QC appeared to comply with the WPS-B-P-2112.

Weld joint- 10, Located on Bike path Hand rails, FS2-P. Welder is identified as 201905. ZPMC Quality Control Inspector (QC) is identified as Ma Qian Li. The welding variables recorded by QC appeared to comply with the WPS-B-P-2212 –B-U2A-1.

Repair welding of Weld joint- X 3744A, Located on Cap plate GGL-MQ-1770. Welder is identified as 062092. ZPMC Quality Control Inspector (QC) is identified as Ma Qian Li. The welding variables recorded by QC appeared to comply with the WPS-345-SMAW-2G (2F)-Repair.

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## WELDING INSPECTION REPORT

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Bay #19

This QA Inspector observed the following work in progress,

### Shielded Metal Arc Welding (SMAW)

Repair welding of Weld joint- X64B as per CWR no. B-CWR-2877, Located on Suspender Bracket SB 022-106E. Welder is identified as 062811. ZPMC Quality Control Inspector (QC) is identified as Li Ping. The welding variables recorded by QC appeared to comply with the WPS-345-SMAW-1G (1F) –Repair.

### Flux Cored Arc Welding (FCAW)

Weld joint- 005, Located on Suspender Bracket SB026-110W. Welder is identified as 062783. ZPMC Quality Control Inspector (QC) is identified as Li Ping. The welding variables recorded by QC appeared to comply with the WPS-B-T-2132-ESAB.

Weld joint- 006, Located on Suspender Bracket SB026-110W. Welder is identified as 062783. ZPMC Quality Control Inspector (QC) is identified as Li Ping. The welding variables recorded by QC appeared to comply with the WPS-B-T-2133-ESAB.

Weld joint- 005, Located on Suspender Bracket SB027-110E. Welder is identified as 062734. ZPMC Quality Control Inspector (QC) is identified as Li Ping. The welding variables recorded by QC appeared to comply with the WPS-B-T-2132-ESAB.

Weld joint- 006, Located on Suspender Bracket SB027-110E. Welder is identified as 062734. ZPMC Quality Control Inspector (QC) is identified as Li Ping. The welding variables recorded by QC appeared to comply with the WPS-B-T-2133-ESAB

### Ultrasonic Testing (UT)

The following Non Destructive Testing (NDT) inspection carried out as per the ZPMC submitted Notification No. 08844

This QA inspector performed UT of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an UT report (TL 6027) for this date. The member is identified as OBG Cap plates. The weld designation reviewed as follows:

TB 3001-001 – Jt. no. -001

TB 3001-002 – Jt. no. -001

TB 3001-003 – Jt. no. -001

TB 3001-004 – Jt. no. -001

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## WELDING INSPECTION REPORT

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For further information see below pictures:-

Unless otherwise noted, all work observed on this date appeared to be in general compliance with the applicable contract documents.



### Summary of Conversations:

No relevant Conversations.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Thomas Hu (15002048250), who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Baskar, Govindarajan
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Quality Assurance Inspector
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<b>Reviewed By:</b>	Clifford, William
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QA Reviewer
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